

Probability: Counting Principle

Name: _____ Date: _____

Solve the following probability word problems.

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| <p>(1) There are nine flavors of ice cream and you can have one in three kinds of cones with four different kinds of sprinkles on top. How many combinations are possible?</p> <p>(2) If the light bulb comes in your choice of three sizes, four shapes and two different wattages, how many different bulbs can you choose from?</p> <p>(3) The toy store has seven trains available in three different historical styles and two different scales. How many different trains can you buy?</p> <p>(4) The hardware store sells both wood and metal screws in three different head widths and three different shank lengths. How many different screws are available?</p> | <p>(5) If you can get six kinds of pens in three different point sizes and six ink colors, how many different pens are available?</p> <p>(6) How many outfits can you get from six shirts, six pairs of pants and three pairs of shoes?</p> <p>(7) How many possible combinations are there from six pen colors, three different kinds of pens and two different colored notepads?</p> <p>(8) If the store has seven kinds of sweaters in all seven colors and all three arm lengths, how many different sweaters can you buy?</p> |
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Theoretical Probability

Name: _____ Date: _____

Solve the following probability word problems.

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| <p>(1) A jar contains three blue marbles, six red marbles and four green marbles, and you pick one without looking. What is the probability that the marble will be neither red nor blue?</p> <p>(2) You roll a eighteen-sided die (with numbers one through eighteen). What is the probability that the value of the roll will be a composite number?</p> <p>(3) Each of the letters in the word PITCHFORK are on separate cards face down on the table. If you pick a card at random, what is the probability that its letter will come between (and including) F and R in the alphabet?</p> | <p>(4) You pick one card from a standard deck. What is the probability that the card will not be a card lower than king?</p> <p>(5) You ask a friend to think of a number from five to eleven. What is the probability that his number will a prime number?</p> <p>(6) Each of the letters in the word MINSTREL are on separate cards face down on the table. If you pick a card at random, what is the probability that its letter will come between (and including) J and U in the alphabet?</p> <p>(7) You pick one card from a standard deck. What is the probability that the card will not be a card lower than seven?</p> |
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